

Amendments to the Claims:

1. (currently amended) An interface circuit for digital signals, comprising:
receiving means for receiving digital signals relative to a first ground potential;
transformer means coupled to the receiving means for passing edges of signals received at
the receiving means; and
~~reconstruction means~~ a first Schmitt trigger coupled to the transformer means for
reconstructing signals from the edges of signals passed by the transformer means, so as to
produce digital signals relative to a second ground potential; and
a second Schmitt trigger configured as an oscillator and coupled to the first Schmitt trigger,
the oscillating second Schmitt trigger setting a single bias point of the first Schmitt
trigger so as to reduce the temperature variability thereof.
2. (cancel).
3. (currently amended) The interface circuit according to claim 2 1 wherein the second
Schmitt trigger means comprises biases means for biasing the DC level of the edge signals
between the trigger levels of the first Schmitt trigger means.
- 4-5. (cancel).
6. (currently amended) The interface circuit according to claim 5 1 wherein the first and
second Schmitt triggers means and the Schmitt trigger arrangement are located on the same
semiconductor die in order to reduce the temperature variability of the interface circuit.
7. (currently amended) An interface circuit for interfacing digital signals to and from a bus,
comprising:
first receiving means for receiving digital signals, relative to a first ground potential, for
transmission on the bus;
first transformer means coupled to the first receiving means for passing edges of signals
received at the first receiving means;
a first ~~reconstruction means~~ Schmitt trigger coupled to the first transformer means for
reconstructing signals from the edges of signals passed by the first transformer means, so
as to produce digital signals, relative to a second ground potential, for transmission on the
bus;

a second Schmitt trigger configured as an oscillator and coupled to the first Schmitt trigger, the oscillating second Schmitt trigger setting a single bias point of the first Schmitt trigger so as to reduce the temperature variability thereof;
second receiving means for receiving digital signals, relative to the second ground potential, from the bus;
second transformer means coupled to the second receiving means for passing edges of signals received at the second receiving means; ~~and~~
~~second reconstruction means~~ a third Schmitt trigger coupled to the second transformer means for reconstructing signals from the edges of signals passed by the second transformer means, so as to produce digital signals, relative to the first ground potential, from the bus; and
a fourth Schmitt trigger configured as an oscillator and coupled to the third Schmitt trigger, the oscillating fourth Schmitt trigger setting a single bias point of the third Schmitt trigger so as to reduce the temperature variability thereof.

8. (cancel).

9. (currently amended) A method for interfacing digital signals, comprising:
receiving digital signals relative to a first ground potential;
applying the received digital signals to transformer means to pass edges of the received digital signals; and
reconstructing signals from the signal edges passed by the transformer means using a first Schmitt trigger so as to produce digital signals relative to a second ground potential; and providing a second Schmitt trigger configured as an oscillator and coupled to the first Schmitt trigger, the oscillating second Schmitt trigger setting a single bias point of the first Schmitt trigger so as to reduce the temperature variability thereof.

10-12. (cancel).